

Pre AP Chemistry Science Fair

Sci. Fair Note Book

**Each partner will
have a Sci. Fair
Note Book**

- Composition Book

- 3 Ring Binder

- Folder with paper
attached

Digital book allow only as
a back up

Set up:

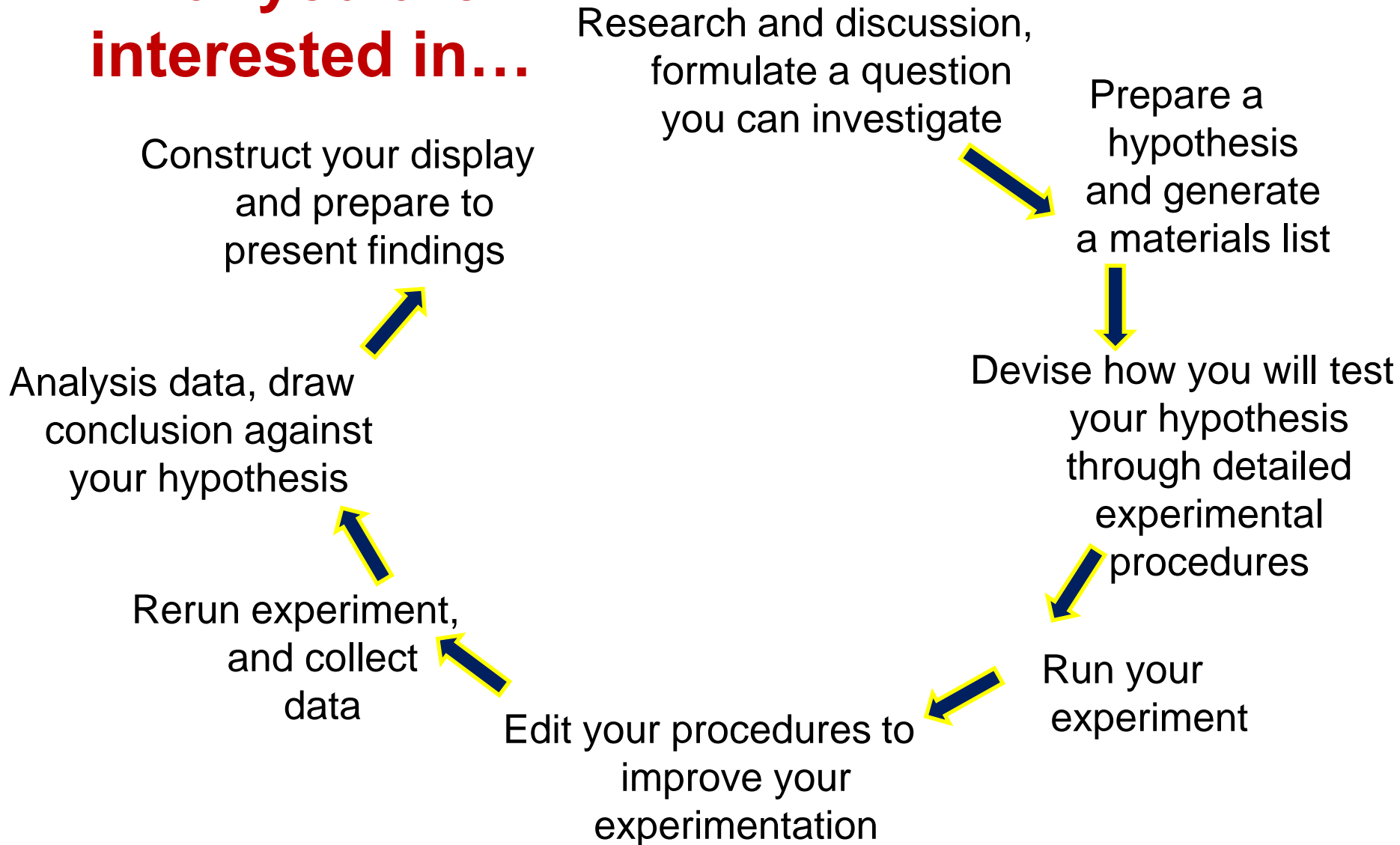
Title page (First page)

Table of contents (2-3 pages)

Everyday you work or science fair start a new
day and date it, treat like a journal.

Science Fair, The Process

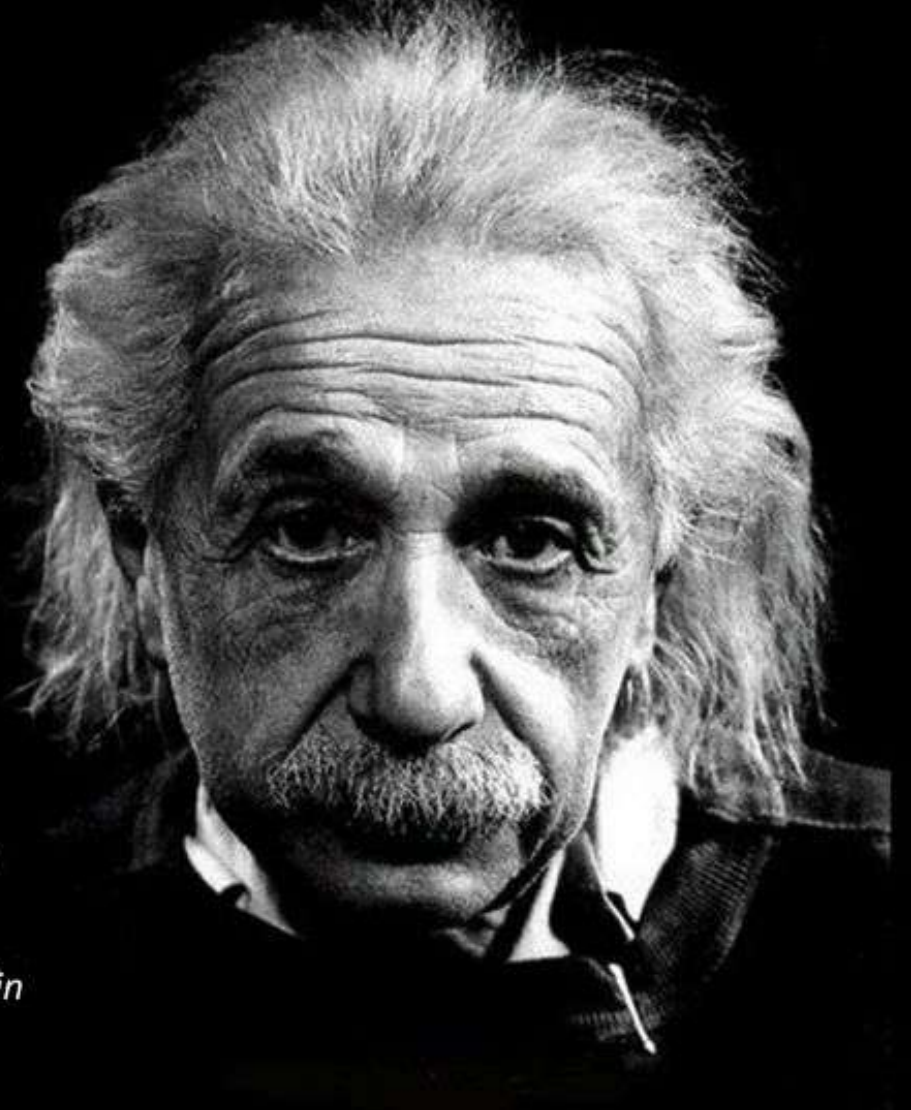
What you are interested in...



Formulating a Question

"If I had an hour to solve a problem and my life depended on the solution, I would spend the first 55 minutes determining the proper question to ask, for once I know the proper question, I could solve the problem in less than 5 minutes."

- *Albert Einstein*



Types of Questions

Comparison

- Which compost composition results in the greatest fruit production in tomatoes as measured by tomato quantity and size?
- What effect does temperature have on the strength of different types of magnets?
- How does increasing the height of a ramp affect how far a ball rolls down the ramp?

Types of Questions

Causal

- How does solute concentration affect the rate at which salt dissolves in water?
- Does the type of wood affect how long it burns?
- What is the effect of salt on the boiling temperature of water?

Types of Questions

Predictive

- Will an increase in nitrogen concentration negatively impact aquatic plant growth?
- How does increasing the height of a ramp affect how far a ball rolls down the ramp?
- Can a predictive model be made for accurately predicting the landing location of a projectile

Due Date,

Subject to change

Can be found on class web page in Science Fair page.

Science fair note book will be used for due dates

- A. **I.** Topic/ Approval, **II.** Research/ Introduction, **III.** Hypothesis, and **VI.** Variables **8.Oct.2015**
- B. Experimental approval forms & **VI.** Materials List and **VII.** Data Collection Tables/ Charts **12.Oct.2015**
- C. **V. a.** Procedures ver. 1 & initial trial run completed.
Preliminary data collected in Sci. Fair Book **2.Nov.2015**
- D. **V. b.** Procedures ver. 2 completed* **10.Nov.2015**
Begin Experiment and data collection

*Extension available on a case by case basis.

Due Date, Subject to change

- E. Experimentation or design build and data collection completed*. **30.Nov.2015**
- F. Data Tables and graphs for analysis Completes **4.Dec.2015**
- G. Presentation Data Tables, **VIII.** Graphs with Analysis, **IX.** Analysis, and **X.** Conclusions complete* **11.Dec.2015**
- H. Poster Board Completed **14.Jan.2016**

*Extension available on a case by case basis.